

WHAT IS CLAIMED IS:

1. A system for controlling signal transmission between a plurality of
5 modems coupled to computers and at least two Internet service providers, the system comprising:

a router coupled to a base station, the base station being configured to transmit and receive wireless signals to and from the modems coupled to computers; and

a tunnel switch in communication with the router via a communication path,
10 wherein the router is configured to route signals between the base station and the tunnel switch via the communication path, the tunnel switch being configured to route signals between the router and first and second Internet service providers via wired communication paths, the router being configured to impose a first pre-determined signal bandwidth limit between the modems and the first Internet service provider,
15 and the router being configured to impose a second pre-determined signal bandwidth limit between the modems and the second Internet service provider.

2. The system of Claim 1, wherein the router uses a software interface to impose the first and second pre-determined signal bandwidth limits.

3. The system of Claim 1, wherein the router uses a hardware interface to impose the first and second pre-determined signal bandwidth limits.

4. The system of Claim 1, wherein the router uses a circuit and software to
25 impose the first and second pre-determined signal bandwidth limits.

5. The system of Claim 1, wherein the tunnel switch uses a first Layer 2 Tunneling Protocol to direct signals between the first ISP and at least one modem and a second Layer 2 Tunneling Protocol to direct signals between the second ISP and at least
30 one modem.

6. The system of Claim 1, wherein the signals between the modems and the base station comprise emails.

7. The system of Claim 1, wherein the signals between the modems and the base station comprise requests for Internet content.

5 8. The system of Claim 1, wherein the signals between the modems and the base station comprise motion pictures and requests for motion pictures.

9. The system of Claim 1, wherein the signals between the modems and the base station comprise music videos and requests for music videos.

10 10. The system of Claim 1, wherein the signals between the modems and the base station comprise video games and requests for video games.

11. The system of Claim 1, wherein the modems and the base station maintain
15 a substantially continuous wireless communication connection.

12. The system of Claim 1, wherein the communication paths comprise fiber optic cable.

20 13. The system of Claim 1, wherein the communication paths are wireless.

14. The system of Claim 1, wherein the modems are integrated with the computers.

25 15. The system of Claim 1, wherein the router is configured to impose a first pre-determined signal bandwidth limit between the router and the tunnel switch for the first Internet service provider, and the router being configured to impose a second pre-determined signal bandwidth limit between the router and the tunnel switch for the second Internet service provider.

30 16. A system for controlling signal transmission between a plurality of modems coupled to computers and at least two Internet service providers, the system comprising:

a router coupled to a base station, the base station being configured to transmit and receive wireless signals to and from the modems coupled to computers; and

a tunnel switch in communication with the router via a communication path, wherein the router is configured to route signals between the base station and the tunnel switch via the communication path, the tunnel switch being configured to route signals between the router and first and second Internet service providers via wired communication paths, the tunnel switch being configured to impose a first pre-determined signal bandwidth limit between the modems and the first Internet service provider, and the tunnel switch being configured to impose a second pre-determined signal bandwidth limit between the modems and the second Internet service provider.

17. A method of controlling signal transmission between a plurality of modems coupled to computers and at least two Internet service providers, the method comprising:

wirelessly transmitting signals between a base station and the modems coupled to computers;

routing signals between a router coupled to the base station and a tunnel switch via a communication path;

routing signals between the tunnel switch and first and second Internet service providers via wired communication paths;

imposing a first pre-determined signal bandwidth limit between the modems and the first Internet service provider; and

imposing a second pre-determined signal bandwidth limit between the modems and the second Internet service provider.

18. The method of Claim 17, wherein routing signals between the tunnel switch and first and second Internet service providers uses a first Layer 2 Tunneling Protocol to direct signals between the first ISP and at least one modem and a second Layer 2 Tunneling Protocol to direct signals between the second ISP and at least one modem.

19. The method of Claim 17, wherein the signals between the modems and the base station comprise requests for Internet content.

20. The method of Claim 17, wherein imposing first and second pre-determined signal bandwidth limits comprise:

- 5 imposing a first pre-determined signal bandwidth limit between the router and the tunnel switch for the first Internet service provider; and
imposing a second pre-determined signal bandwidth limit between the router and the tunnel switch for the second Internet service provider.

10 21. A system for controlling signal transmission between a plurality of modems coupled to computers and at least two Internet service providers, the system comprising:

- 15 a routing means coupled to a base station, the base station being configured to transmit and receive wireless signals to and from the modems coupled to computers; and
a tunnel switching means in communication with the routing means via a communication path, wherein the routing means is configured to route signals between the base station and the tunnel switching means via the communication path, the tunnel switching means being configured to route signals between the routing means and first and second Internet service providers via wired communication paths, the routing means being configured to impose a first pre-determined signal bandwidth limit between the modems and the first Internet service provider, and the routing means being configured to impose a second pre-determined signal bandwidth limit between the modems and the second Internet service provider.

25 22. A method of controlling signal transmission between a plurality of modems coupled to computers and at least two Internet service providers, the method comprising:

- wirelessly transmitting signals between a base station and the modems coupled to computers;
30 routing signals between a routing means coupled to the base station and a tunnel switching means via a communication path;
routing signals between the tunnel switching means and first and second Internet service providers via wired communication paths;

imposing a first pre-determined signal bandwidth limit between the modems and the first Internet service provider; and

imposing a second pre-determined signal bandwidth limit between the modems and the second Internet service provider.